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APPLICATION NO.	FILING DATE		Washington, D.C. 20231	ATENTS AND TRADEMARKS
09/545,072	04/07/2000	FIRST NAMED INVENTOR Yun Lin	ATTORNEY DOCKET NO. CONFIRMATION NO.	
Karen L Elbin	590 12/20/2002 ug Ph D		00786/368002	9768
Clark & Elbing 176 Federal Street Boston, MA 02110			EXAMINER KUBELIK, ANNE R	
			ART UNIT 1638 DATE MAILED: 12/20/2002	PAPER NUMBER

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action

Application No.	Applicant(s)	
09/545,072	LIN ET AL.	
Examiner	 Art Unit	T
Anne R. Kubelik	1638	

-- The MAILING DATE of this communication appears on the cover she t with the correspondence address --

THE REPLY FILED 27 November 2002 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. I HE REPLY FILED 27 November 2002 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may apply be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. PERIOD FOR REPLY [check either a) or b)]

a) The period for reply expires Table (a marks (a mark
a) The period for reply expiresmonths from the mailing date of the final rejection.
b) The period for reply expiresmonths from the mailing date of the final rejection. The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP have been filed is the date for review and under 37 CFR 1.136(a). The date no which the control of the final rejection.
have been stilled may be obtained under 37 CER 1 1001
Extensions of time may be obtained under 37 CFR 1.138(a). The date on which the petition under 37 CFR 1.138(a) and the appropriate extension fee (i) above, if checked. Any reply received by the Clifford state of the shortened statutory period for reply originally set in the final office action; or (c) as set forth in the corresponding amount of the fee. The appropriate extension fee (ii) above, if checked. Any reply received by the Office latter than three months after the mailing date of the final rejection, even if timely fleet. See 37 CFR 1.704(b).
1. A Notice of Appeal was 51
A Notice of Appeal was filed on 27 November 2002. Appellant's Brief must be filed within the period set forth in 2. ☐ The proposed amendment(s) will not be entered because:
(w) 23 tiley laise new issues that would are the
 (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below); (b) ☐ they are not down with the entered because: (c) ☐ they are not down with the entered because:
(c) they are not deemed to place the application in house
(c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the
(d) they present additional claims without canceling a corresponding number of finally rejected claims. NOTE: See Continuation Sheet.
3. Applicantia and Applicantia
3. Applicant's reply has overcome the following rejection(s): See Continuation Sheet. 4. Newly proposed or a most discounting the following rejection of t
4. Newly proposed or amended claim (s)
4. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment 5. ☑ The a) ☐ affidavit, b) ☐ exhibit or a) ☑
5. ☑ The a) ☐ affidavit, b) ☐ exhibit or o ☑ an
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for reconsideration has been considered but does NOT place the 6. ☐ The affidavit or exhibit will NOT be
The affidavit or exhibit will NOT be considered because it is
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly 7. ☑ For purposes of Anneal the great of the
or purposes of Appeal, the proposed amendment(s) and will and
7. ☑ For purposes of Appeal, the proposed amendment(s) a) ☑ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows:
of the claim(s) is (or will be) as follows:
Glain(s) allowed:
Claim(s) objected to:
Claim(s) rejected: 1,3-13 and 15-26
Claim(s) withdrawn from and the
8. The proposed drawing correction filed on 27-39.
8. ☐ The proposed drawing correction filed on 27. November 2002 is a) ☐ approved or b) ☐ disapproved by the
attached illiormation Displaces of the
10. Other: See Continuation Sheet
U.S. Patent and Tredemark Office
PTO-303 (Rev. 04-01)

Continuation Sheet (PTO-303) . 009/545.072





Continuation of 2. NOTE: New issues: Claim 23 is indefinite in its recitation of "based on a nucleic acid" It is not clear what it means for an antisnese RNA to be based on a nucleic acid - does it mean it differs from it in some manner?

Continuation of 3. Applicant's reply would have overcome the following rejection(s):

The 102(b) rejections of claims 8 and 11-12 as anticipated by Storozhenko et al and claims 23-26 as anticipated by Lee et al and the 1-3(a) rejection over lee et al in view of Storozhenko et al would be withdrawn in light of amendment to indicate that the nucleic acid

The 102(b) rejection of claim 21 as anticipated by Akama would be withdrawn in light of amendment to indicate that the seed comprises

Continuation of 5. does NOT place the application in condition for allowance because:

112, 1st enablement rejections: Claim 1 is drawn to a nucleic acid encoding any protein with 30% identity to SEQ ID NO.2. The specification does not teach how to use any such protein - it only teaches how to use SSE proteins. Making nucleic acids that encode proteins with 30% identity to SEQ ID NO:2 would require making 256 amino acid substitutions. The specification falls to provide guidance for making such a nucleic acid that also encodes a protein that facilitates the intracellular transport of a protein, the formation of protein bodies, or the formation of oil bodies. Without that guidance, undue experimentation would be required, simply based on the astronomical numbers of possible nucleic acids to be made and analyzed. Colliver et al teaches the importance of sequence identity between an antisense RNA and the target gene - thus, SEQ ID NO:1 could only be used in antisense inhibition in Arabidopsis, and it is not clear in what plant a nucleic acid that encodes a protein with 30% identity to SEQ ID NO:2 could be used.

112. 1st, written description: The specification does not describe the structural features of a nucleic acid that encodes a protein that has 30% identity to SEQ ID NO.2 and that encodes a protein that facilitates the intracellular transport of a protein, the formation of protein bodies, or the formation of oil bodies. 112, 2^{rds}. hybridization conditions are indefinite because hybridization and wash times are not specified.

Continuation of 10. Other: This application contains claims 14 and 27-39 drawn to an invention nonelected without traverse in Paper No. 11. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144).

> DAVID T. FOX PRIMARY EXAMINER

> > aeD)

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